

JET

DSAN4-T

Belt Grinder

Original:

GB
Operating Instructions



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CE

CE-Conformity Declaration CE-Konformitätserklärung Déclaration de Conformité CE

Product / Produkt / Produit:

Belt Grinder

~~Drehbank~~

~~Tour à métaux~~

DSAN4-T

756185T

Brand / Marke / Marque:

JET

Manufacturer / Hersteller / Fabricant:

JPW (Tool) AG, Tämperlistrasse 5, CH-8117 Fällanden
Schweiz / Suisse / Switzerland

We hereby declare that this product complies with the regulations
Wir erklären hiermit, dass dieses Produkt der folgenden Richtlinie entspricht
Par la présente, nous déclarons que ce produit correspond aux directives suivantes

2006/42/EC

Machinery Directive

Maschinenrichtlinie

Directive Machines

2014/30/EU

electromagnetic compatibility

elektromagnetische Verträglichkeit

compatibilité électromagnétique

designed in consideration of the standards

und entsprechend folgender zusätzlicher Normen entwickelt wurde

et été développé dans le respect des normes complémentaires suivantes

EN ISO 12100:2010

EN 13898:2003+A1:2009

EN 60204-1:2006+A1:2009

EN 61000-6-2:2005

EN 61000-6-4:2007+A1:2011

Responsible for the Documentation / Dokumentations-Verantwortung / Responsabilité de Documentation:

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JPW (Tool) AG



2017-11-28 Jan Dätwyler, General Manager
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Schweiz / Suisse / Switzerland

GB - ENGLISH

Operating Instructions

Dear Customer,

Many thanks for the confidence you have shown in us with the purchase of your new JET-machine. This manual has been prepared for the owner and operators of a **JET DSAN4-T Belt Gringder** to promote safety during installation, operation and maintenance procedures. Please read and understand the information contained in these operating instructions and the accompanying documents. To obtain maximum life and efficiency from your machine, and to use it safely, read this manual thoroughly and follow instructions carefully.

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1. Declaration of conformity

On our own responsibility we hereby declare that this product complies with regulations

2. Warranty

JPW (Tool) AG guarantees that the supplied product(s) is/are free from material defects and manufacturing faults.

This warranty does not cover any defects which are caused, either directly or indirectly, by incorrect use, carelessness, damage due to accidents, repairs or

inadequate maintenance or cleaning as well as normal wear and tear.

Further details on warranty (e.g. warranty period) can be found in the General Terms and Conditions (GTC) that are an integral part of the contract.

These GTC may be viewed on the website of your dealer or sent to you upon request.

JPW (Tool) AG reserves the right to make changes to the product and accessories at any time.

3. Safety

3.1 Authorized use

This belt Grinder is designed for sanding Metal and similar materials only. Sanding of other materials is not permitted and may be carried out in specific cases only after consulting with the manufacturer.

The machine is not suitable for wet sanding. The machine is not designed to be used in explosive environment.

The workpiece must allow to safely be loaded, supported and guided.

The proper use also includes compliance with the operating and maintenance instructions given in this manual.

The machine must be operated only by persons familiar with its operation and maintenance and who are familiar with its hazards.

The required minimum age must be observed.

The machine must only be used in a technically perfect condition.

Do not attempt to operate tool until it is completely assembled according to the instructions

When working on the machine, all safety mechanisms and covers must be mounted.

In addition to the safety requirements contained in these operating instructions and your country's applicable regulations, you should observe the generally recognized technical rules concerning the operation of woodworking machines.

Any other use exceeds authorization.

In the event of unauthorized use of the machine, the manufacturer renounces all liability and the responsibility is transferred exclusively to the operator

3.2 General safety notes

Metalworking machines can be dangerous if not used properly. Therefore the appropriate general technical rules as well as the following notes must be observed.



Read and understand the entire instruction manual before attempting assembly or operation.

Keep this operating instruction close by the machine, protected from dirt and humidity, and pass it over to the new owner if you part with the tool.

No changes to the machine may be made.

Daily inspect the function and existence of the safety appliances before you start the machine.
Do not attempt operation in this case, protect the machine by unplugging the mains cord.

Remove all loose clothing and confine long hair.

Before operating the machine, remove tie, rings, watches, other jewellery, and roll up sleeves above the elbows.

Wear safety shoes; never wear leisure shoes or sandals.

Always wear the approved working outfit.

Do **not** wear gloves.

Install the machine so that there is sufficient space for safe operation and workpiece handling.

Keep work area well lighted.

The machine is designed to operate in closed rooms and must be placed stable on firm and levelled table surface.

Make sure that the power cord does not impede work and cause people to trip.

Keep the floor around the machine clean and free of scrap material, oil and grease.

Stay alert!

Give your work undivided attention. Use common sense.
Do not operate the machine when you are tired.

Keep an ergonomic body position.
Maintain a balanced stance at all times.

Do not operate the machine under the influence of drugs, alcohol or any medication. Be aware that medication can change your behaviour.

Never reach into the machine while it is operating or running down.

Never leave a running machine unattended. Before you leave the workplace switch off the machine.

Keep children and visitors a safe distance from the work area.

Do not operate the electric tool near inflammable liquids or gases.

Observe the fire fighting and fire alert options, for example the fire extinguisher operation and place.

Do not use the machine in a damp environment and do not expose it to rain.

Wood dust is explosive and can also represent a risk to health.

Dust from some tropical woods in particular, and from hardwoods like beach and oak, is classified as a carcinogenic substance.

Always use a suitable dust extraction device

Before machining, remove any nails and other foreign bodies from the workpiece.

Never operate with the table insert not in place.

Make sure to guide and hold the workpiece thigh during machining.

Machine only stock which rests securely on the table.

Specifications regarding the maximum or minimum size of the workpiece must be observed.

Do not remove chips and workpiece parts until the machine is at a standstill.

Do not stand on the machine.

Connection and repair work on the electrical installation may be carried out by a qualified electrician only.

Have a damaged or worn power cord replaced immediately.

Replace any torn or worn sanding belt respectively sanding disc immediately.

Make all machine adjustments or maintenance with the machine unplugged from the power source.

Maintain 1.5mm maximum clearance between table and sanding belt or disc.

Turn machine off immediately if it jams.

Disconnect tool when changing belt or abrasive disc.

Avoid accidental start-up. Make sure that the tool is in the "OFF" position before plugging in.

3.3 Remaining hazards

When using the machine according to regulations some remaining hazards may still exist.

The moving sanding belt respectively sanding disc can cause injury.

Risk of kickback. The workpiece is caught by the moving sanding belt respectively sanding disc and thrown back to the operator.

Thrown workpiece parts can lead to injury.

Sanding dust and noise can be health hazards. Be sure to wear personal protection gear such as safety goggles and dust mask. Use a suitable dust exhaust system.

Defective sanding belts respectively sanding discs can cause injuries.

Use recommended accessories only. Use of improper accessories may cause risk of injury to persons.

The use of incorrect mains supply or a damaged power cord can lead to injuries caused by electricity.

4. Machine specifications

4.1 Technical data

Belt Dimension:	100x2000mm 80G
Belt Speed :	15m/sec / 30m/sec
Belt direction :	Forward & Reverse
Notching angle:	30°~90°
Base size (footprint):	508x710mm
Working height:	1100mm
Drive wheel size:	Ø195mm
Dust port diameter	2- Ø 75mm
Net Weight	155kg
Machine dimensions:	1200x600x1180mm
Mains	~400V,3L/PE, 50Hz
Motor output power	P2=2.4/3,0kW S1
Reference current	4.7A/6.0 A
Extension cord (H07RN-F)	4x1.5mm ²
Installation fuse protection	10A
Isolation class	B

4.2 Noise emission

Acoustic pressure level (EN ISO 11202):

Idling	LpA 85,9 dB (A)
In operation	LpA 89,8 dB (A)

The specified values are emission levels and are not necessarily to be seen as safe operating levels.

This information is intended to allow the user to make a better estimation of the hazards and risks involved.

4.3 Content of delivery

Check for shipping damage. If damage has occurred, a claim must be filled with carrier. Check for completeness.

Immediately report missing parts to dealer.

The Belt Sander comes assembled as one unit. Additional parts which need to be fastened to Belt Sander, should be located and accounted for before assembling.



Fig 1

See Fig.1

- 1 Abrasive Notcher
- 1 Abrasive belt (80-grit) preinstalled
- 3 Rollers (one roller is pre-installed)
- 1 Open end wrench, 22/24mm
- 3 Hex wrenches, 4,6,8 mm
- 1 Operating instructions and parts list
- 1 Product registration card

WARNING: Do not operate machine until completely

assembled.

Do not operate machine until you have completely read and understood this manual.

4.4 Description of machine

This manual is provided by JET, covering the safe operation and maintenance procedures for the JET DSAN4-3T-series Abrasive Notchers. This manual contains instructions on installation, safety precautions, general operating procedures, maintenance instructions and parts breakdown. Your machine has been designed and constructed to provide consistent, long-term operation if used in accordance with the instructions as set forth in this document.

If there are questions or comments, please contact your local supplier or JET. JET can also be reached at our web site: www.jettools.com.

Retain this manual for future reference. If the machine transfers ownership, the manual should accompany it.



Read and understand the entire contents of this manual before attempting assembly or operation! Failure to comply may cause serious injury!

Register your product using the mail-in card provided, or register online <http://www.jettools.com>.

5. Transport and start up

5.1 Transport and Installation of sander

Inspect contents for shipping damage. Report damage, if any, to your distributor. Do not discard shipping materials until Notcher is set up and running properly.

Compare contents of shipping carton with the contents list above. Report shortages, if any, to your distributor.

The Abrasive Notcher should be located on a sturdy, level floor in a dry environment, with good overhead lighting and room enough for loading and offloading of stock, and general maintenance.

Lift machine using hook or straps through lifting plate (Figure 5-1). Make sure lifting equipment capacity exceeds maximum weight of Notcher.



Machine is heavy; use appropriate lifting device and exercise caution when moving to final location. Failure to comply may cause serious injury.

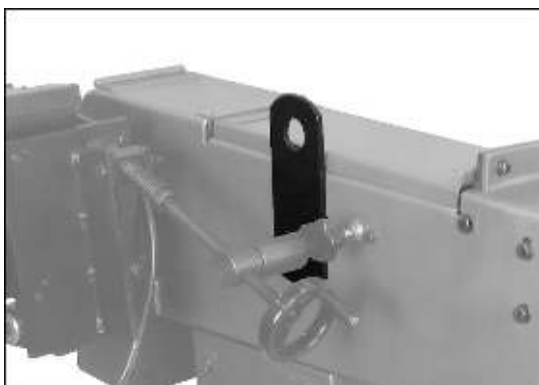


Fig 2

It is recommended that Notcher be bolted to floor, using lag screws or similar means. See mounting pattern, Fig.3

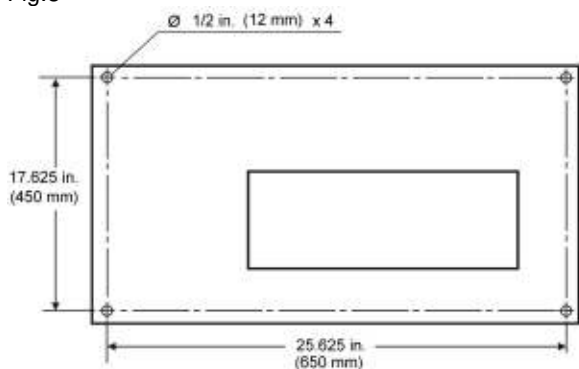


Fig 3

Remove rust protectant from exposed surfaces with a clean rag and cleaner/degreaser or kerosene. Avoid getting solvents on rubber or plastic parts.

5.2 Mains connection

Mains connection and any extension cords used must comply with applicable regulations.

The mains voltage must comply with the information on the machine licence plate.

The mains connection must have a 10A surge-proof fuse.

Only use connection cables marked H07RN-F 1.5mm²

Connections and repairs to the electrical equipment may only be carried out by qualified electricians.

5.3 Starting operation

You can start the machine with the green ON button. The red OFF-button on the main switch (Fig 4) stops the machine.

Belt grinder is consisted of main body and its racks. The main body can swivel and be adjusted in a certain angle range around the racks. It is in operation by a grinding wheel which is directly driven by a motor.

5.4 Connection of dust collection



Fig 4

Connect back dust collection outlet to dust extrusion system.

Connect front dust collection outlet to proper container or bag. When dust in the bag is more the half of the capacity of the collection bag, please stop the machining process and clean the bag in time. (D, Fig.4)

6. Setup and adjustments



Disconnect machine from power source before making adjustments, unless indicated otherwise.

6.1 Dust and chip collection

The chip boxes (see F, Fig 5) are located to catch swarf/chips at point of workpiece contact. The box near the jaw assembly freely slides in and out; the box beneath the wheel grinder is secured by a screw.

The circular plate at bottom of each chip box can be removed to connect a dust collection hose using a hose clamp. It is strongly recommended that a dust collection system (not provided) suitable for metal working be used with the Notcher.

6.2 Jaw adjustments

See Fig5.

Handle (A) – Moves jaw assembly toward and away from belt. Adjust handle sensitivity using the socket head screws underneath handle.

Locking lever (B) – Push to right to lock lateral slide; left to unlock.

Handle (C) – Rotate to move floating jaw.

Angle locking screw (D) – Loosen to rotate jaw assembly for angular work. Refer to adjoining angle scale. Always tighten screw before operating.

Workstop assembly (E) – Loosen handle to adjust. Workstop assembly can be removed and stored on tube (see T, Fig.7) when not in use.

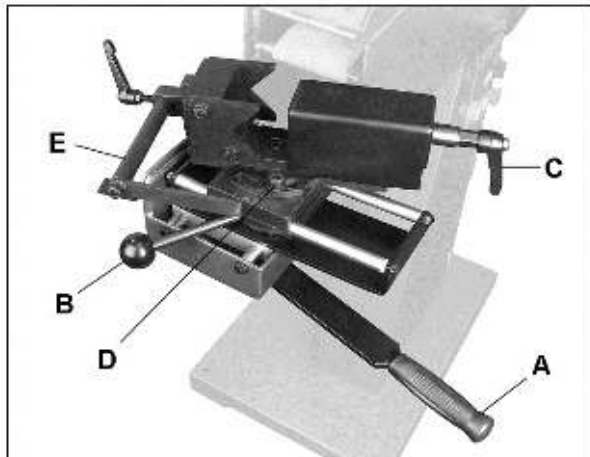


Fig. 5

6.3 Wheel grinding

CAUTION For safety, gap between table and grinding wheel should not exceed 1/16-inch (1.6mm).

Adjust table (G, Fig 6) into position and tighten handle (H).

When finished using grinding wheel, adjust table so that guard can be closed completely, as shown in Fig 6-2b.

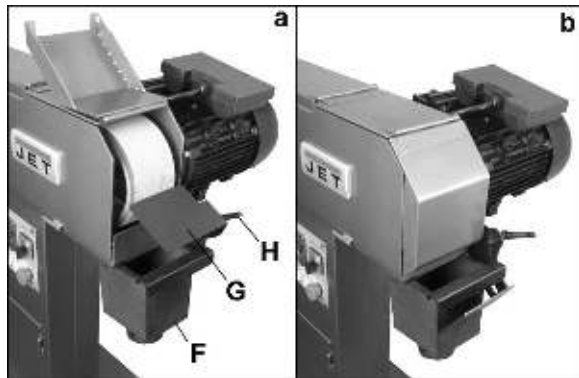


Fig.6

6.4 Changing abrasive belts

1. Disconnect machine from power source.
2. Open side and top covers.
3. Remove tension from belt by rotating handwheel (J, Fig. 7) counterclockwise.
4. Tension belt with handwheel (J).
5. Track belt. See sect. 6.6.
6. Close all covers.

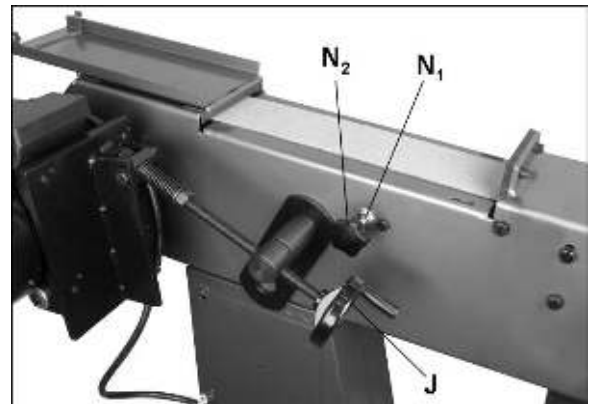


Fig 7

6.5 Removing/installing rollers

1. Disconnect machine from power source.
2. Remove tension from abrasive belt (J, Fig 7).
3. Loosen hex nuts (K, Fig.8) and turn set screws (L) to lower steel balls (M).
4. Slide out roller and insert new roller.
5. Raise balls (M) by turning set screws (L), tighten hex nuts (K), and tension belt.

The additional rollers can be stored on the rack within the column – open column door to access.

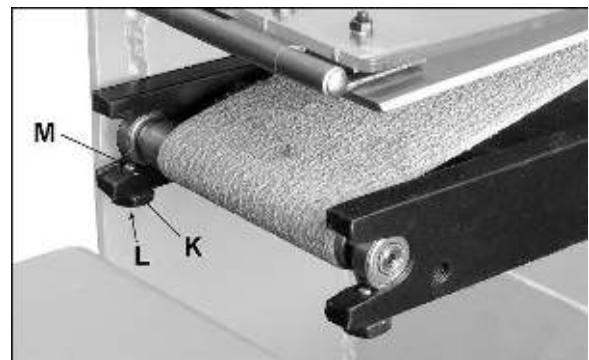


Fig 8

6.6 Belt tracking

1. Loosen hex nut (N1, Fig.7) counter-clockwise.
2. Open top cover and move abrasive belt by hand to observe tracking.
3. Rotate knob (N2) as needed to adjust.
4. Tighten nut (N1) against machine to secure setting.
5. Connect to power and run the machine to verify the setting. Make further adjustments if needed.

6.7 Adjustable handles

The handles (such as C, Fig.5) can be adjusted to more convenient position; lift up handle and rotate it on the pin, then release, making sure it reseats on pin.

7. Machine operation

Refer to Fig 9.

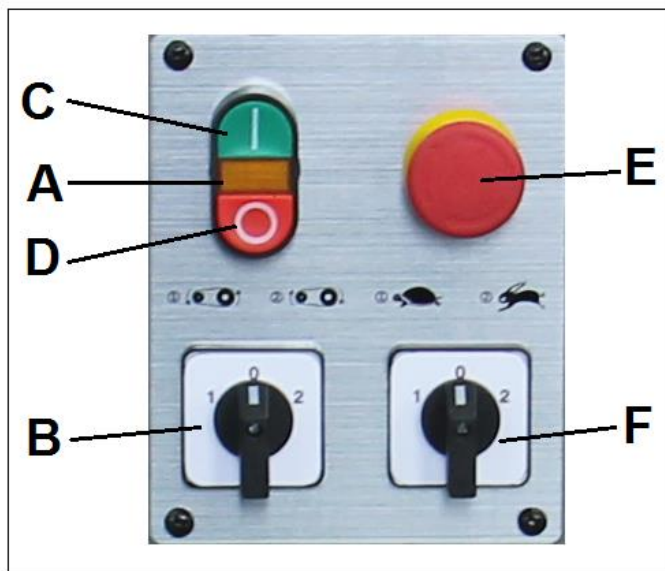


Fig. 9

A – Main on/off switch.

B – Direction switch: Controls belt direction, center position is neutral (belt does not move). To prevent build-up of chips and debris on the belt, use appropriate belt direction for each operation:

- Notching – Direction 1
- Grinding side – Direction 2
- Grinding top – Direction 2

C – On button: Starts belt movement.

D – Off button: Stops belt movement.

E – Emergency stop button: Press for fast shut-down of machine functions. To restart machine, rotate button clockwise until it disengages.

F – High / Lower Speed switch:

8. Maintenance and adjustment

⚠ WARNING Always disconnect power to machine before performing maintenance. Failure to do this may result in serious personal injury.

8.1 General maintenance

After each use, vacuum abrasive debris from machine area. Wipe down machine with a clean rag and apply light coat of oil to exposed metal surfaces to inhibit rust.

Keep notching table and guide shaft areas clean and free of debris. Use a brush to clear shavings, not bare hands.

8.2 Lubrication

Note: Roller bearings are sealed and do not require further lubrication.

See Fig 10 and Fig 11.

1. Apply oil or grease to tension leadscrew and contact points at hex nut.
2. Apply oil or grease to jaw leadscrew.
3. Apply grease to swivel base area.
4. Clean and apply oil to long and short guide shafts.

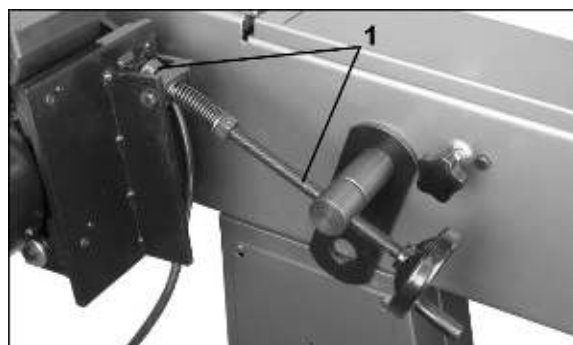


Fig.10



Fig. 11

9. Troubleshooting

Symptom	Possible Cause	Correction*
Motor will not start.	Low voltage.	Check power line for proper voltage.
	Open circuit in motor or loose connection.	Inspect all lead connections on motor for loose or open connections.
	On/Off switch failure.	Inspect switch, replace if needed.
	Centrifugal switch failure (won't close to activate start capacitor).	Replace centrifugal switch.
	Run capacitor failure.	Replace run capacitor.
	Motor fault.	Have motor tested by qualified personnel.
Motor will not start: fuses blow or circuit breakers trip.	Short circuit in line cord or plug.	Inspect cord or plug for damaged insulation and shorted wires.
	Short circuit in motor or loose connections.	Inspect all connections on motor for loose or shorted terminals or worn insulation.
	Incorrect fuses or circuit breakers in power line.	Install correct fuses or circuit breakers.
Motor overheats.	Motor overloaded.	Reduce pressure of material against abrasive belt.
	Air circulation through motor is restricted.	Clean motor fan with compressed air to restore normal air circulation.
	Prolonged operation.	Allow machine to cool.
	Motor fault.	Have motor tested by qualified personnel.
Motor stalls, or doesn't build to normal operating speed.	Motor overloaded.	Reduce pressure of material against abrasive belt.
	Short circuit in motor or loose connections.	Inspect connections on motor for loose or shorted terminals or worn insulation.
	Low voltage.	Correct the low voltage conditions.
	Incorrect fuses or circuit breakers in power line.	Install correct fuses or circuit breakers.
	Motor fault.	Have motor tested by qualified personnel.
Frequent start capacitor failure.	Centrifugal switch failure (won't open to disengage capacitor, thus causing constant energizing and premature wear of capacitor).	Replace centrifugal switch.
Poor notching or grinding performance.	Abrasive belt slipping on roller/wheel.	Tighten belt.
Excessive vibration or noise.	Machine not level on floor.	Level machine; use shims if needed.
	Loose motor fan.	Inspect and tighten.
	Motor imbalance.	Have motor tested by qualified personnel.

***Warning:** Some corrections may require a qualified electrician.

10. Environmental protection

Protect the environment.

Your appliance contains valuable materials which can be recovered or recycled. Please leave it at a specialized institution.